

Fig. 1

Fig. 2A

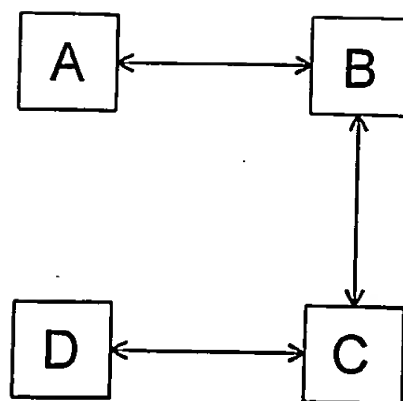


Fig. 2B

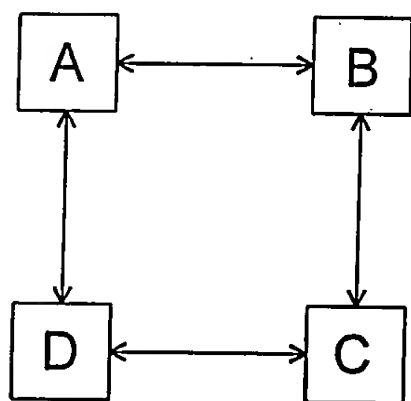


Fig. 2C

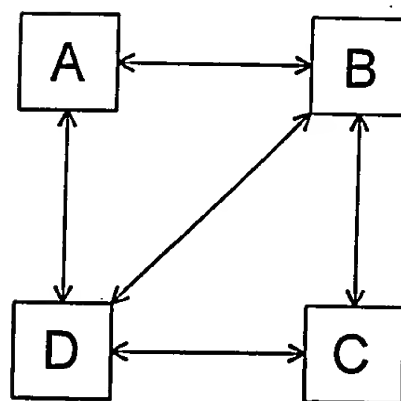


Fig. 2D

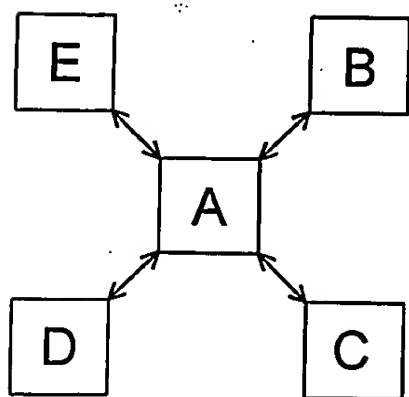


Fig. 2E

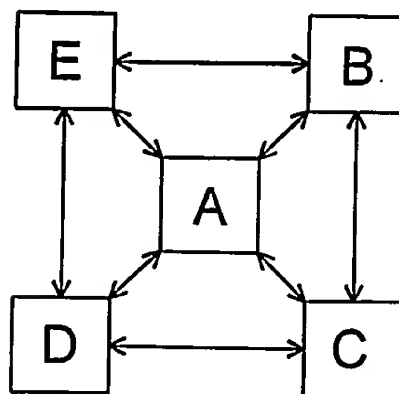
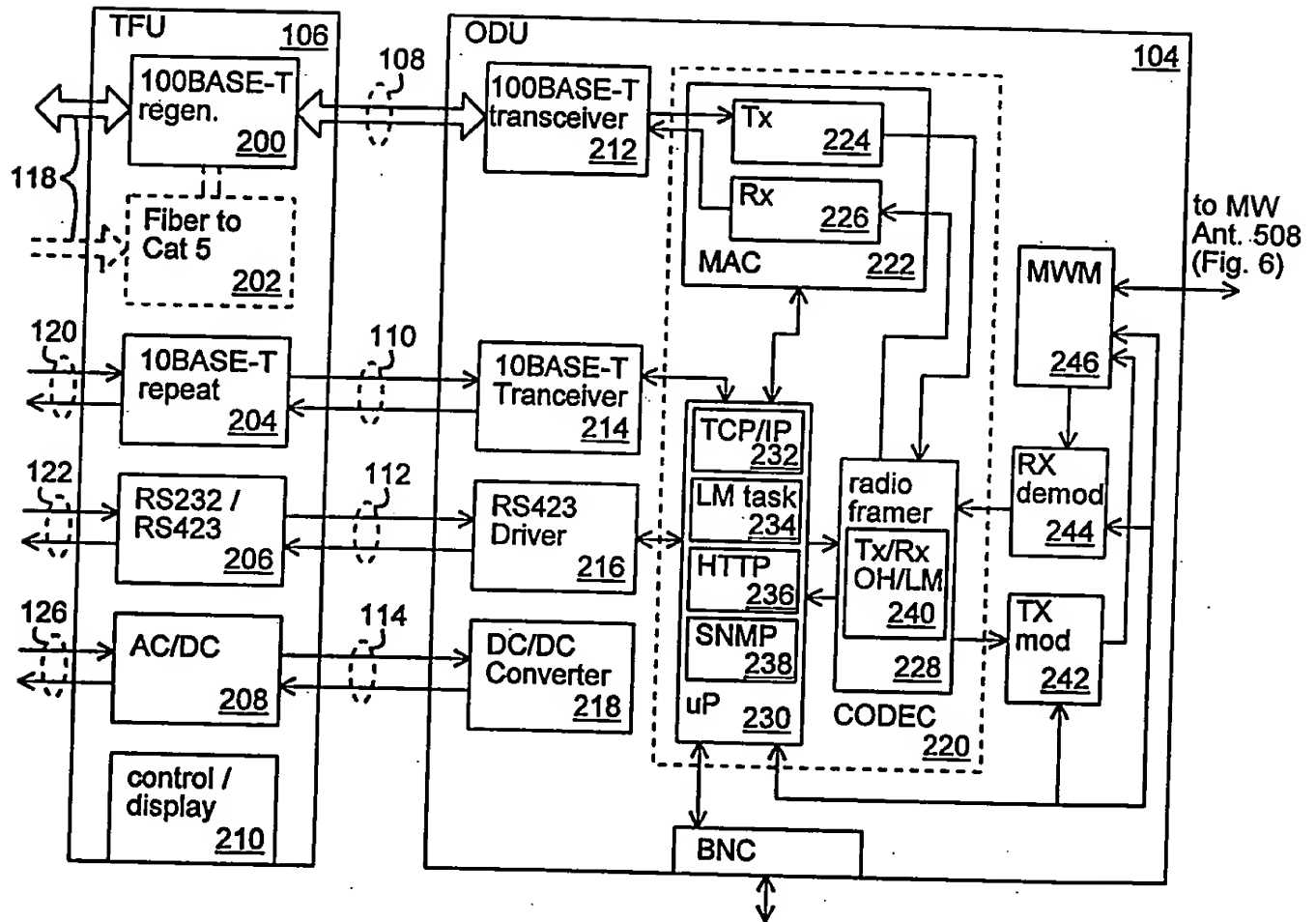


Fig. 2F

↙ 100



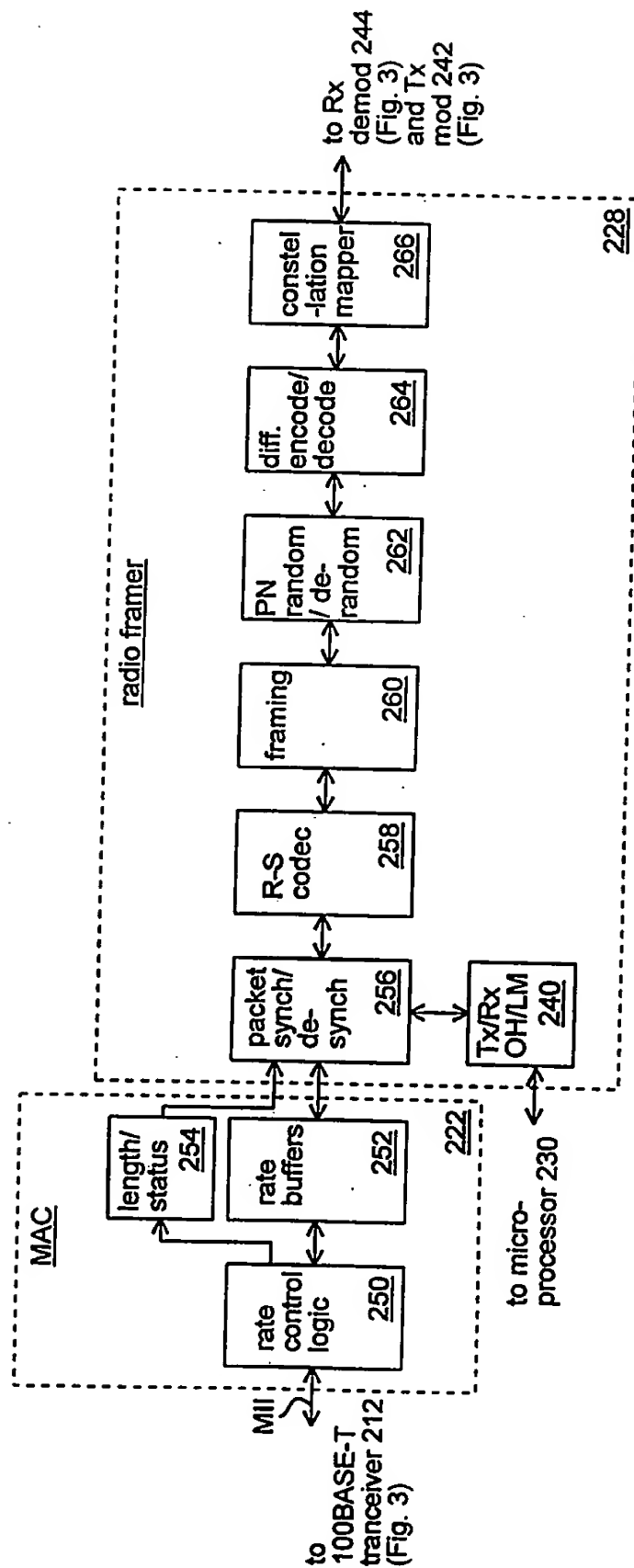


Fig. 4

300

synch (Willard) <u>302</u>	length/ Golay <u>304</u>	data <u>306</u>	FCS <u>308</u>
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300

0044979-00293
362260-0425760

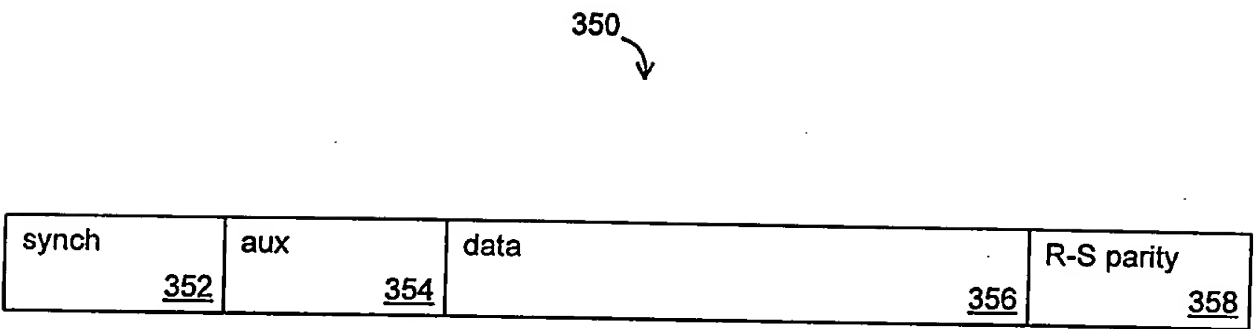


Fig. 6

842760 382

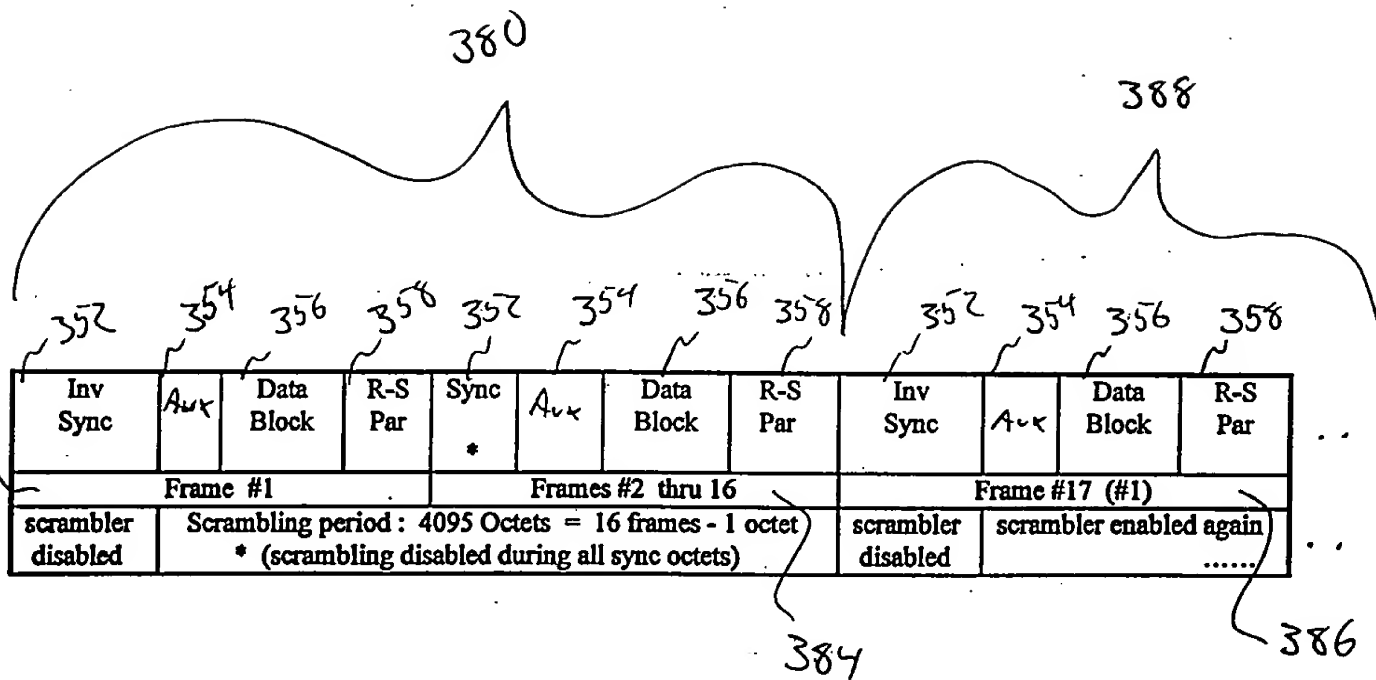


Fig. 7

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- 1. The first part of the document is a list of references. The references are listed in a vertical column on the left side of the page. The references are:

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(Fig. 4)

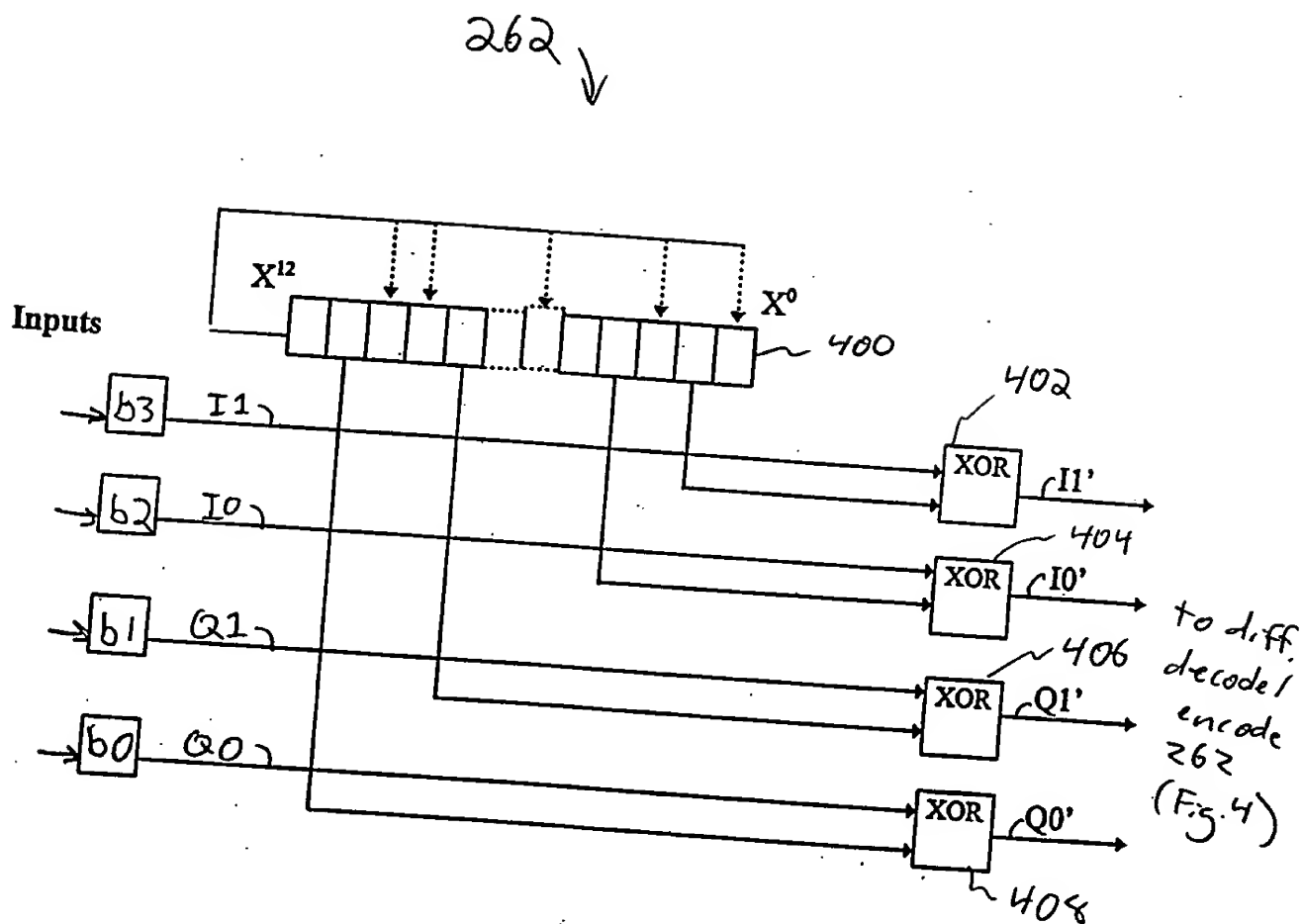


Fig. 8

$Quad = 2 \cdot I1' + Q1'$; -- Map Quadrant Tag [0 1 2 3]
 $Phi = [0 \ 1 \ 3 \ 2]$; -- to Angle = [0 1 3 2]
 $Angle = Phi(Quad)$
 $Sum = (Sum + Angle) \text{ modulo } 4$;
 $I1'' = \text{bit 1 of Sum}$; $I0'' = I0'$;
 $Q1'' = \text{bit 0 of Sum}$; $Q0'' = Q0'$;

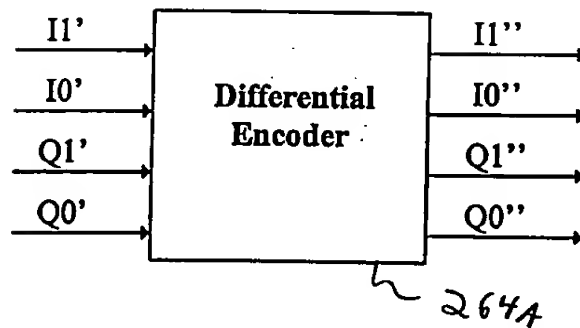


Fig. 9

$$\begin{aligned}
 \text{Angle} &= 2 * \text{RxIs}' + \text{RxQs}' ; \\
 \text{Phi}' &= [0 \ 1 \ 3 \ 2] ; \\
 \text{Diff} &= (\text{Phi}'(\text{Angle}) - \text{Phi}_0) \text{ modulo } 4 ; \\
 \text{Phi}_0 &= \text{Phi}'(\text{Angle}) ; \\
 \text{RxIs} &= \text{bit 1 of Phi}'(\text{Diff}) ; & \text{RxIm} &= \text{RxIm}' ; \\
 \text{TxIs} &= \text{bit 0 of Phi}'(\text{Diff}) ; & \text{RxQm} &= \text{RxQm}' ;
 \end{aligned}$$

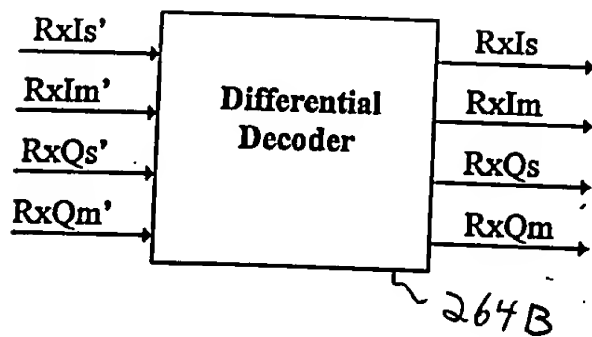


Fig. 10

SECRET

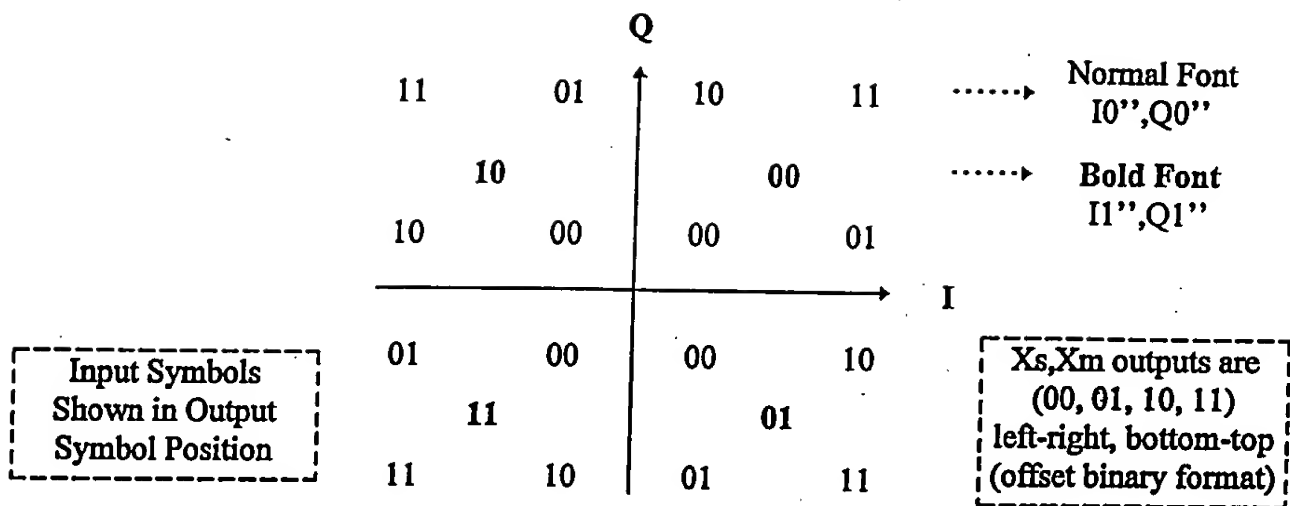


Fig. 11

268 ↘

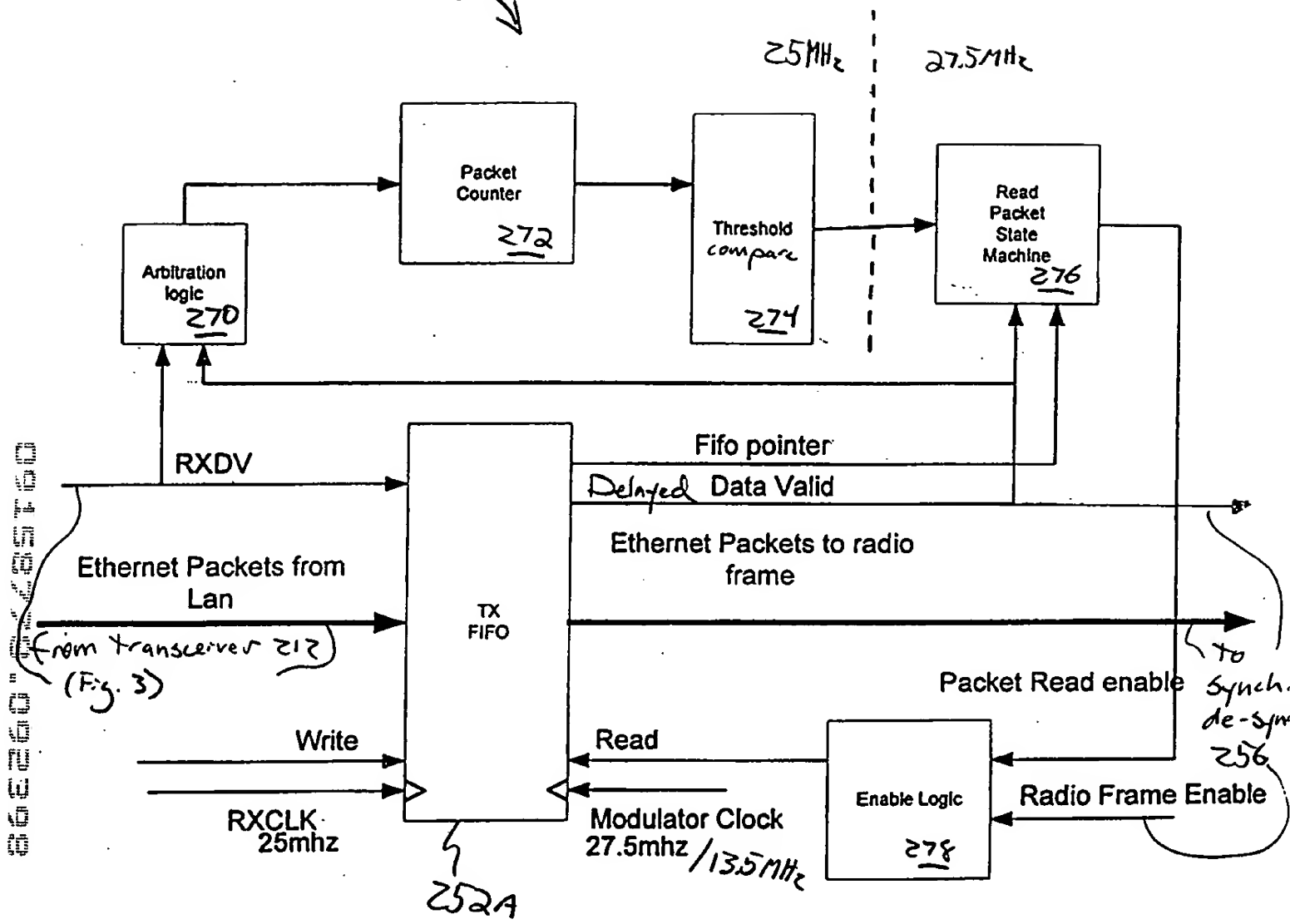


Fig. 12

86260 0225160

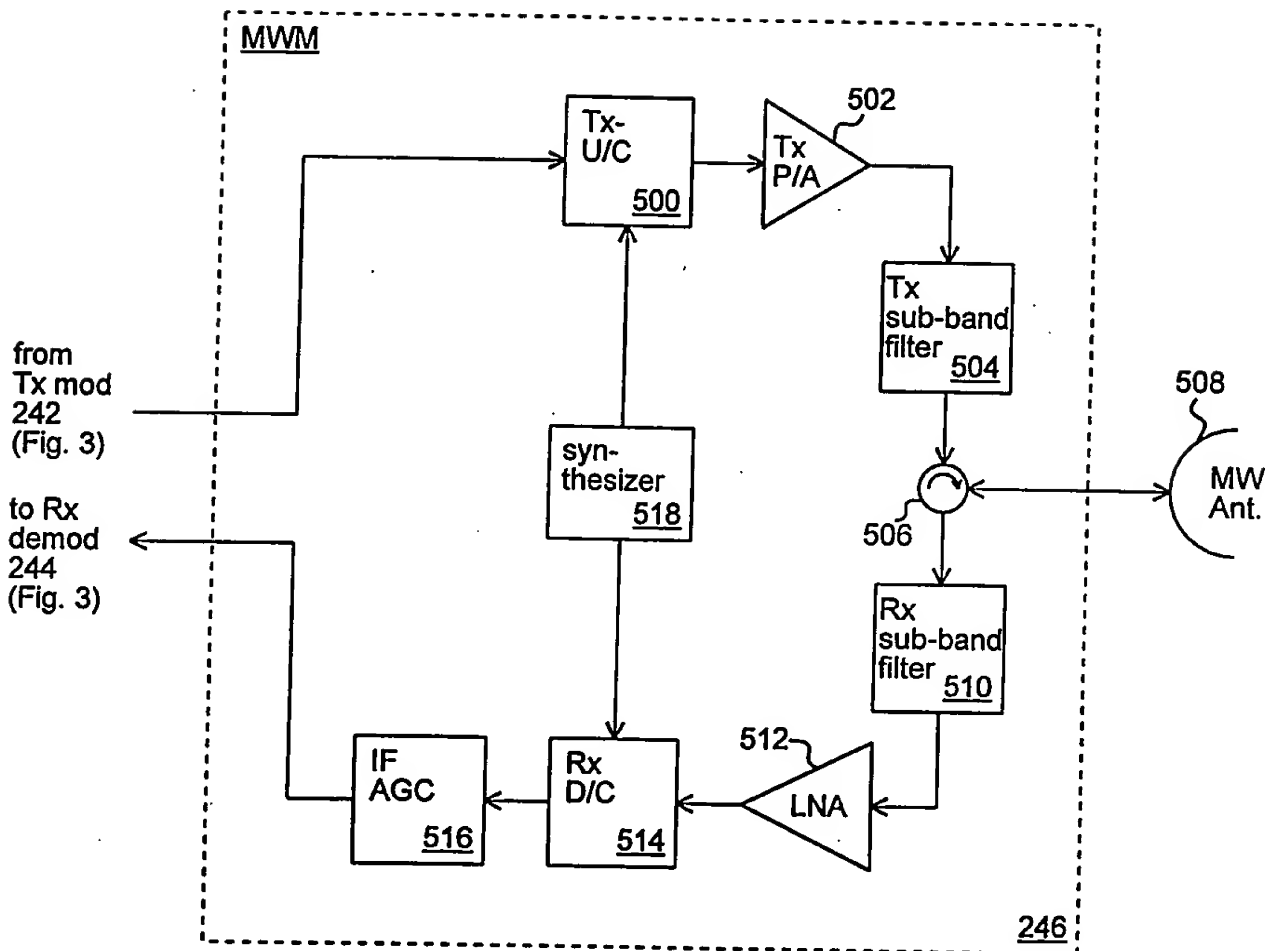


Fig. 14

561260" 04285710

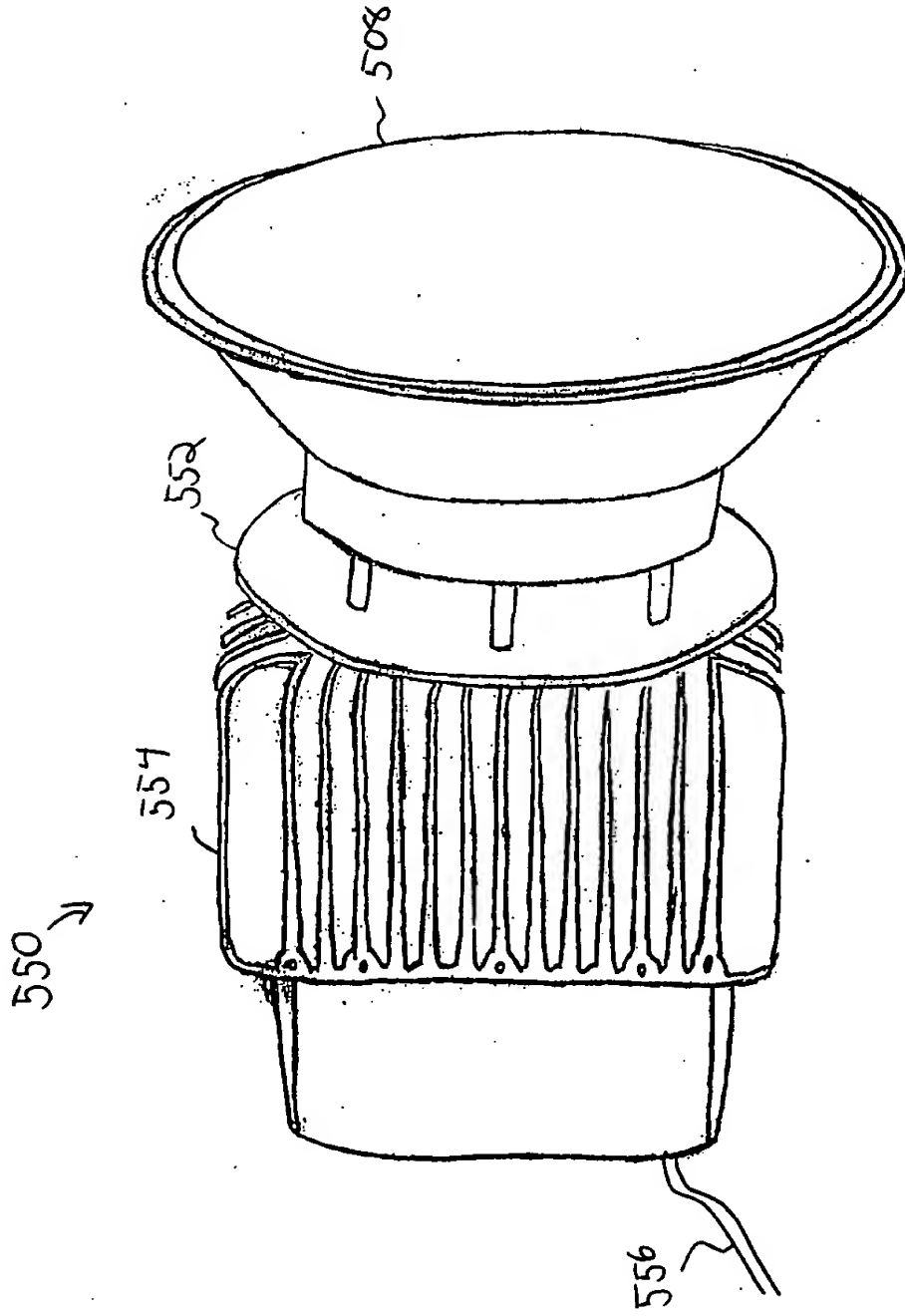
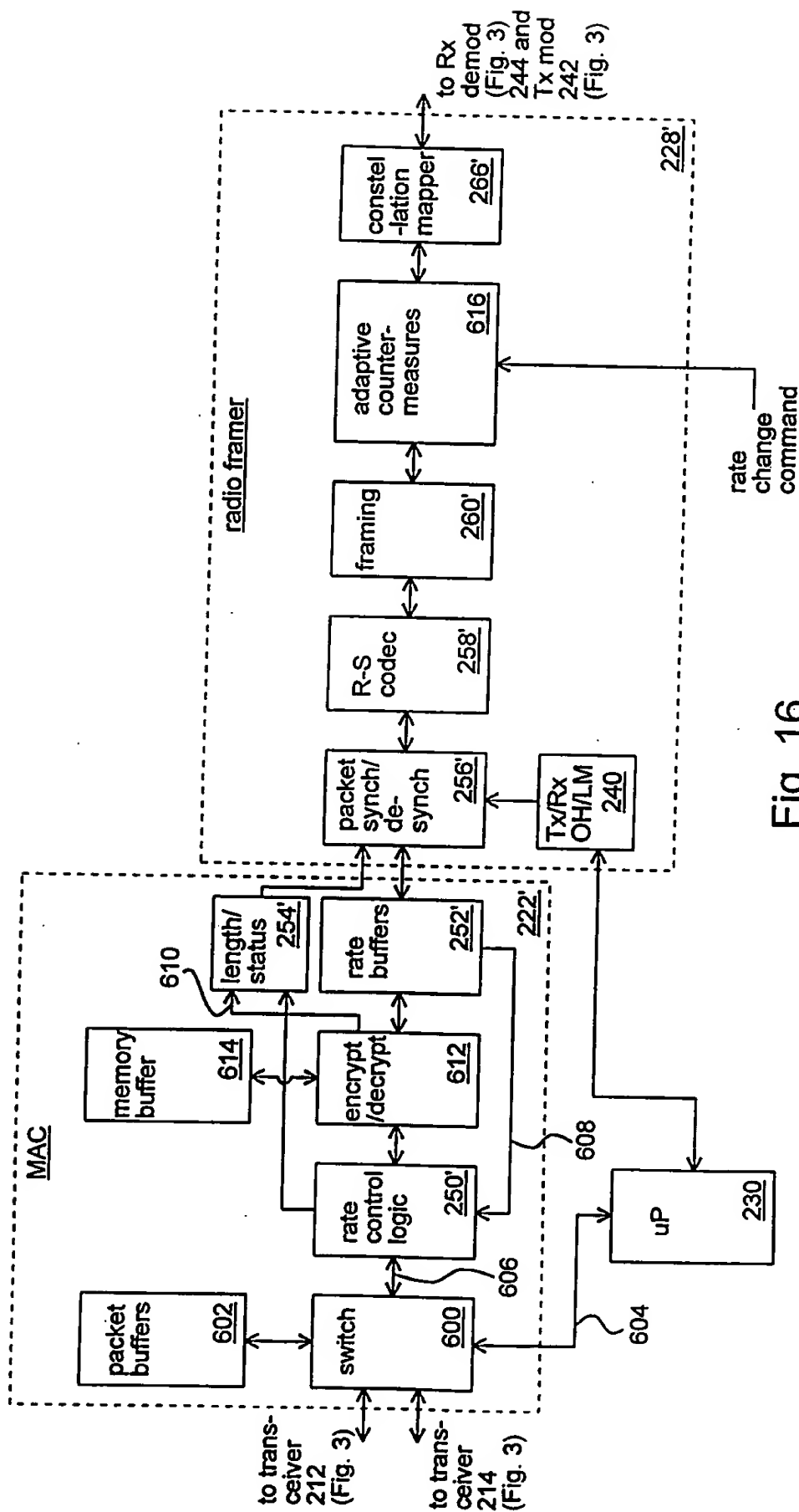


Fig. 15



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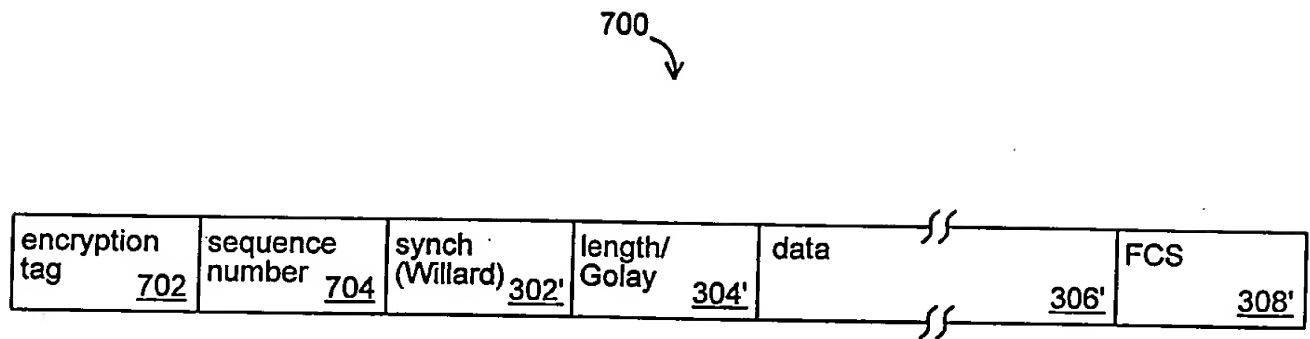


Fig. 17

Fig. 18

Typical Rain Fade Condition

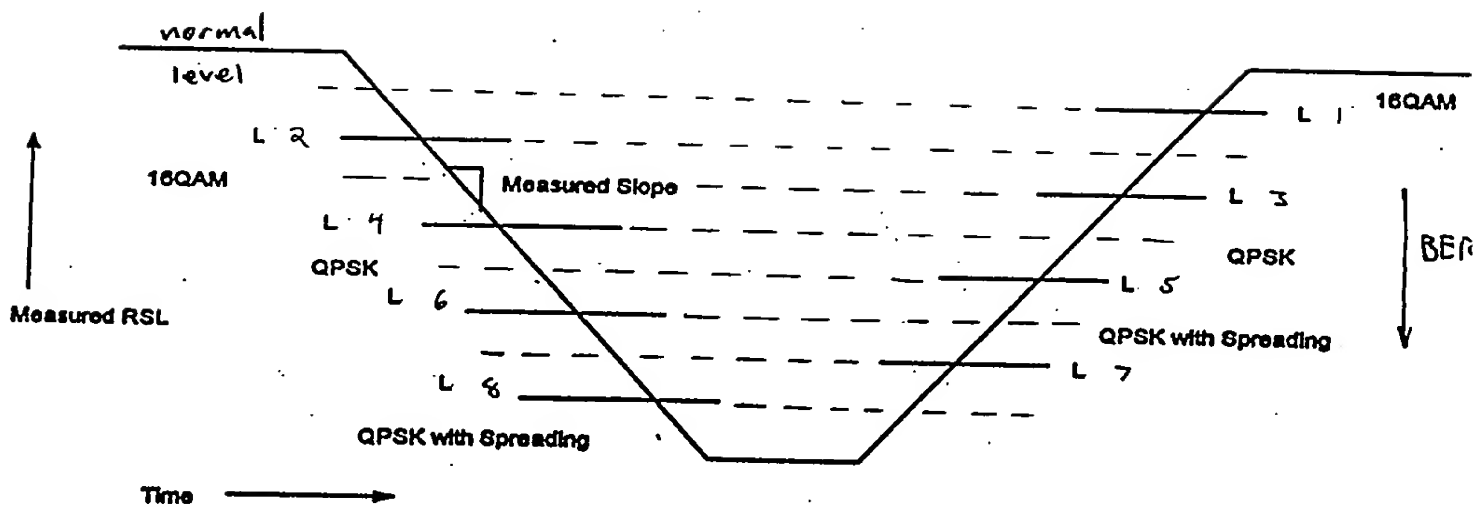


Fig. 19

The flowchart illustrates a signal processing method, likely for a communication system, involving two main paths: one for 16 QAM and one for QPSK states.

16 QAM Path (Left Side):

- Starts at a circle labeled "16 QAM" (800).
- Decision diamond: "RSL < L2 ?" (802).
 - If "no", the path loops back to the "16 QAM" state.
 - If "yes", the path proceeds to the next decision.
- Decision diamond: "slope > Z1 ?" (804).
 - If "yes", the path proceeds to the "QPSK state" circle (808).
 - If "no", the path proceeds to another decision diamond.
- Decision diamond: "RSL < L4 ?" (806).
 - If "yes", the path proceeds to the "QPSK state" circle (808).
 - If "no", the path loops back to the "16 QAM" state.
- Arrives at the "QPSK state" circle (808).

QPSK Path (Right Side):

- Starts at a circle labeled "QPSK state" (808).
- Decision diamond: "RSL > L5 ?" (810).
 - If "no", the path loops back to the "16 QAM" state.
 - If "yes", the path proceeds to the next decision.
- Decision diamond: "slope > Z2 ?" (812).
 - If "yes", the path loops back to the "16 QAM" state.
 - If "no", the path proceeds to another decision diamond.
- Decision diamond: "RSL > L1 ?" (814).
 - If "yes", the path loops back to the "16 QAM" state.
 - If "no", the path proceeds to the next decision.
- Arrives at the "QPSK w/spread state" circle (822).

QPSK w/spread Path (Bottom Right):

- Starts at a circle labeled "QPSK w/spread state" (822).
- Decision diamond: "RSL < L6 ?" (816).
 - If "no", the path loops back to the "16 QAM" state.
 - If "yes", the path proceeds to the next decision.
- Decision diamond: "slope > Z3 ?" (818).
 - If "yes", the path proceeds to the "QPSK w/spread state" circle (822).
 - If "no", the path proceeds to another decision diamond.
- Decision diamond: "RSL < L8 ?" (820).
 - If "yes", the path proceeds to the "QPSK w/spread state" circle (822).
 - If "no", the path loops back to the "16 QAM" state.
- Arrives at the "QPSK w/spread state" circle (822).

QPSK w/spread Path (Bottom Right):

- Starts at a circle labeled "QPSK w/spread state" (822).
- Decision diamond: "RSL > L7 ?" (824).
 - If "no", the path loops back to the "16 QAM" state.
 - If "yes", the path proceeds to the next decision.
- Decision diamond: "slope > Z4 ?" (826).
 - If "yes", the path loops back to the "16 QAM" state.
 - If "no", the path proceeds to another decision diamond.
- Decision diamond: "RSL > L5 ?" (828).
 - If "yes", the path loops back to the "16 QAM" state.
 - If "no", the path loops back to the "16 QAM" state.
- Arrives at the "QPSK w/spread state" circle (822).

Fig. 20

Fig. 20

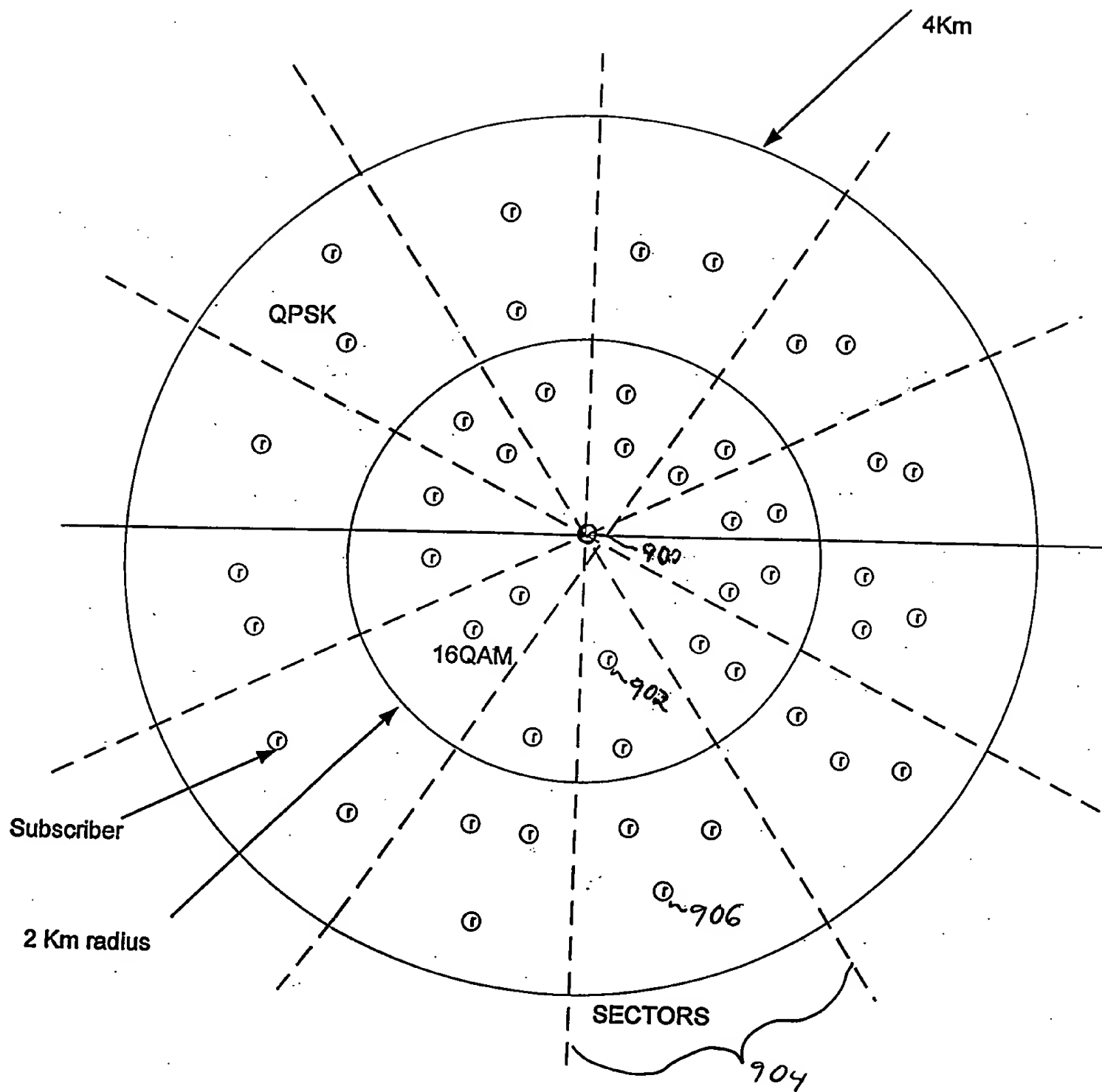
[illegible]

Fig. 21

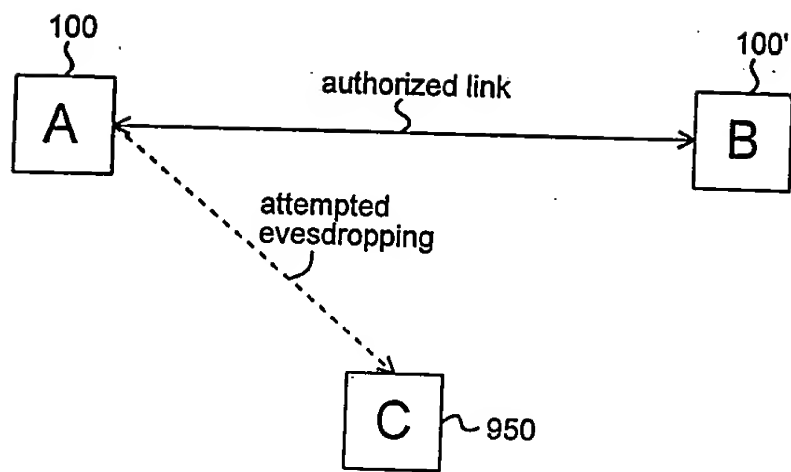


Fig. 22

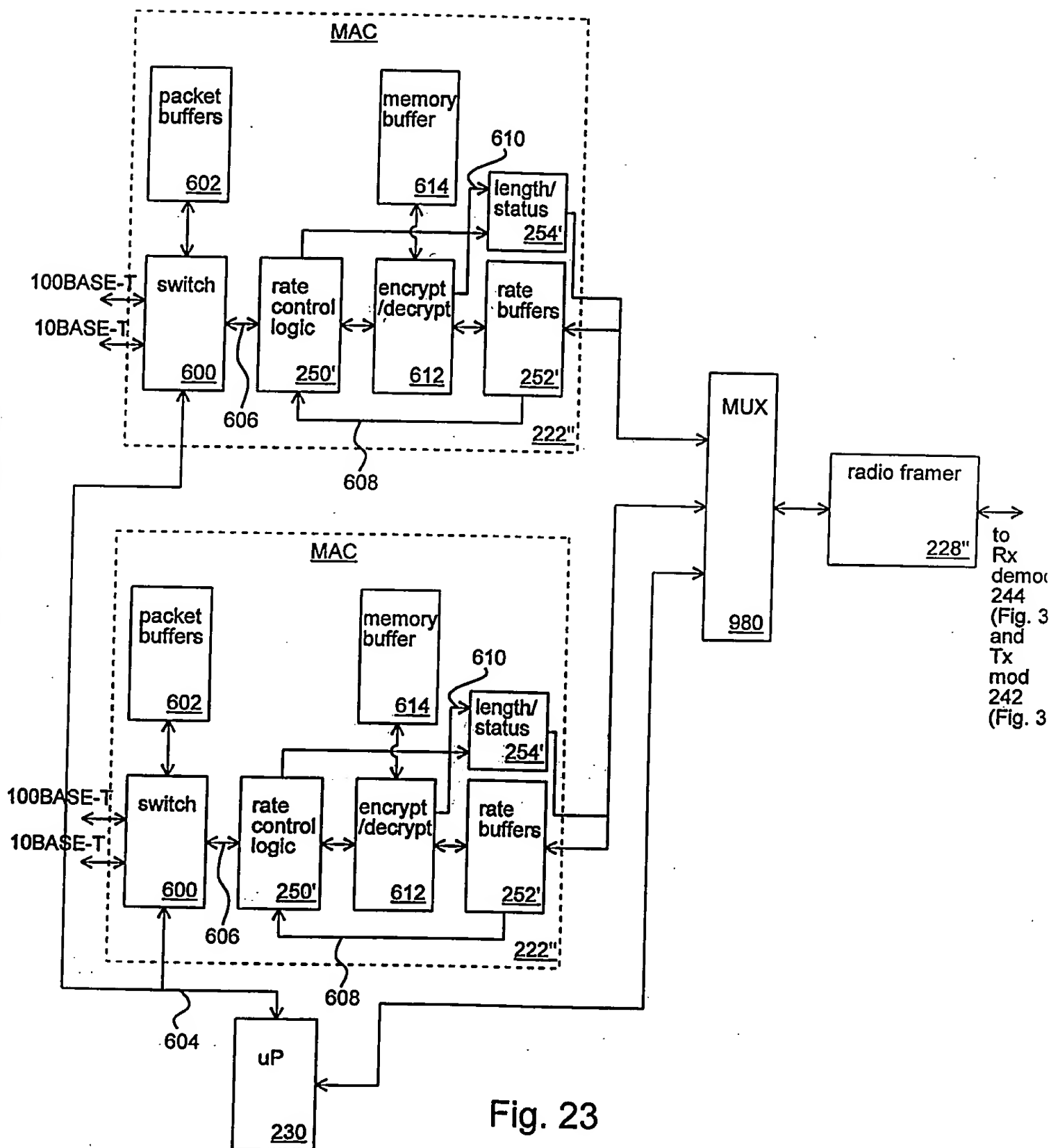
[illegible]

Fig. 23